

**AMENDMENTS TO THE ABSTRACT**

Please replace the Abstract with the following amended Abstract:

A system for determining S-parameters of a network includes an S-parameter calculator that computes the S-parameters of the network based on waveform parameters determined through single port measurements at each of plural ports of the network. A method for determining S-parameters of a network includes determining waveform parameters based on single port measurements performed at plural ports of the network, and determining S-parameters of the network based on the waveform parameters.